



PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
BENJAMIN PLESS et al.) Examiner: M. PEFFLEY
Application No.: 09/698,357) Art Unit: 3739
Filed: October 27, 2000)
For: APPARATUS AND METHOD) AMENDMENT
FOR ABLATING TISSUE)

Assistant Commissioner for Patents
Washington, D.C. 20231

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JAN 29 2003

Sir:

Please enter the following preliminary amendment in this application.

TECHNOLOGY CENTER R3700

IN THE CLAIMS:

Please cancel claims 1-25, 31, 33, 34 and 40-63 and add new claims 115-129 as follows:

31
-115. (New) A method of ablating cardiac tissue from an epicardial location,
comprising the steps of:
 providing an ablating device having an ultrasound emitting element;
 positioning the ablating device in contact with a location outside the patient's heart
 overlying a cardiac tissue structure to be ablated;
 activating the ultrasonic emitting element at a first frequency to produce focused
 ultrasound energy which is directed at the tissue structure, the ultrasound emitting element being
 activated for a number of discrete time periods at the first frequency; and

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activating the ultrasound emitting element for a second period of time at a second frequency which is different than the first frequency, the second period of time occurring after the number of discrete time periods.

116. (New) The method of claim 115, wherein:
the activating steps are carried out with the first period of time being shorter than the second period of time.

117. (New) The method of claim 115, wherein:
the activating steps are carried out with the first period of time being less than 1 second.

118. (New) The method of claim 115, wherein:
the activating step is carried out by activating the ultrasound emitting element at a third frequency different than the first and second for a third period of time, the third period of time occurring after the number of discrete time periods and the second period of time.

119. (New) The method of claim 115, wherein:
the activating step is carried out with the first frequency being about 2-7 MHz and the second frequency being from 2-14 MHz.

120. (New) The method of claim 115, wherein:
the providing step is carried out with the ablating device producing focused energy having a focal length of 2 to 20 mm.

121. (New) The method of claim 115, further comprising the step of:
approximating a temperature using the ultrasound emitting element.

122. (New) The method of claim 115, further comprising the step of:
assessing the adequacy of contact between tissue and the device.

123. (New) The method of claim 115, further comprising the step of:
measuring a blood flow velocity with the ultrasound emitting element.

124. (New) The method of claim 115, further comprising the step of:
determining a tissue layer thickness using the ultrasound emitting element.

125. (New) The method of claim 124, wherein:
the determining step is carried out with the tissue layer being a tissue layer between a near surface and a far surface.

126. (New) The method of claim 115, further comprising the step of:
moving the ultrasound beam after the activating step.